# **fhxbundle**

Fhxbundle is a utility that will bundle together the limo8 and cp fhx load files into a single image that can be used to "auto-update" a limo system. The current implementation is as a single bash script; this version only supports limo8, additional platforms will be supported in the future

**Usage**:

fhxbundle [-verbose] [-keep] [-relgroup {limo|..}][-published {yes|no}]

[-target {assert|nonassert|signable\_assert}]

[-hwphase {lp2|lp3|..}] [-workdir <workdir>] [-out <destdir>]

[-datafs] [-autocopy]

<host\_type, eg {limo|limo8|limo\_mfp}> <host\_version> <cp\_version>

Required Arguments:

<host\_type> Choose type of host distribution to use:

{ limo| limo8 | limo\_mfp }

<host\_version> Host distribution revision

<cp\_version> Limo\_cp distribution revision.

Optional Arguments:

-help Print basic usage message

--help Print an extended usage message

-verbose Extended output

-keep Do not delete intermediate files from working

directory upon exit

-relgroup <name> Sirius Hub release group name.

( default=limo )

-published {yes|no} Use published distributions; sh\_release;

or unpublished distributions;

sh\_proto\_release. { yes | no }.

( default=no )

-target <val> Use target { assert | arel },

{ nonassert | narel }, or

{ signable\_assert | sarel }.

( default=assert )

-hwphase <hwphase> Hardware phase of firmware.

i.e.: lp2, lp3, mp1, etc

-workdir <workdir> Working directory to build the image in,

( default=/tmp )

-out <destdir> Destination output directory.

-[auto]copy Copy the resulting combined image to the

appropriate release directory.

All switches may be abbreviated.

IMPORTANT NOTE: You \*must\* have sudo privs on the Linux host machine that you are running on to successfully run this utility, and you may be prompted to enter your sudo password.

IMPORTANT NOTE: Only modest error checking is done in this version, so it's possible to get an error buried in the output stream that the program doesn't catch and handle. Please scan the output for issues before using the results. We will be improving the error capture over time.

## Installation

The script can be found at git@github.azc.ext.hp.com:ktang/tiny-utils.git, and currently consists of the single file "fhxbundle.sh" to your linux machine as “fhxbundle”. Copy this file to an appropriate location on your host machine and ensure that directory is in your PATH (or invoke it with an explicit path if you prefer).

Execute the following command to make the script executable:

chmod a+x fhxbundle

## Example invocations

The most likely form will be:

fhxbundle –datafs -target arel -hwphase lp3 limo8 <limo8\_version> <limo\_cp\_version>

fhxbundle –datafs -target narel -hwphase lp3 limo8 <limo8\_version> <limo\_cp\_version>

fhxbundle –datafs -target arel -hwphase lp2 limo\_mfp <limo\_mpf\_version> <limo\_cp\_version>

fhxbundle –datafs -target narel -hwphase lp2 limo\_mfp <limo\_mfp\_version> <limo\_cp\_version>

fhxbundle –datafs -target arel -hwphase lp2 limo <limo\_version> <limo\_cp\_version>

fhxbundle –datafs -target narel -hwphase lp2 limo <limo\_version> <limo\_cp\_version>

The result will be put in the current directory.

Then:

cp limo8\_dist\_lp2\_<version>\_assert\_boot\_lbi\_rootfs\_dbfs.fhx /sirius/cr/vcd/sh\_proto\_release/limo/limo8\_dist\_lp2/<version>/assert

cp limo8\_dist\_lp2\_<version>\_nonassert\_boot\_lbi\_rootfs\_dbfs.fhx /sirius/cr/vcd/sh\_proto\_release/limo/limo8\_dist\_lp2/<version>/nonassert

cp limo\_mfp\_dist\_lp3\_<version>\_assert\_boot\_lbi\_rootfs\_dbfs.fhx /sirius/cr/vcd/sh\_proto\_release/limo/limo\_mfp\_dist\_lp3/<version>/assert

cp limo\_mfp\_dist\_lp3\_<version>\_nonassert\_boot\_lbi\_rootfs\_dbfs.fhx /sirius/cr/vcd/sh\_proto\_release/limo/limo\_mfp\_dist\_lp3/<version>/nonassert

cp limo\_dist\_lp3\_<version>\_assert\_boot\_lbi\_rootfs\_dbfs.fhx /sirius/cr/vcd/sh\_proto\_release/limo/limo\_dist\_lp3/<version>/assert

cp limo\_dist\_lp3\_<version>\_nonassert\_boot\_lbi\_rootfs\_dbfs.fhx /sirius/cr/vcd/sh\_proto\_release/limo/limo\_dist\_lp3/<version>/nonassert

Alternately, use the “-autocopy” switch to have the utility perform the copy:

fhxbundle **-autocopy** –datafs -target arel -phase lp3 limo8 <limo8\_version> <limo\_cp\_version>

fhxbundle **-autocopy** –datafs -target narel -phase lp3 limo8 <limo8\_version> <limo\_cp\_version>

fhxbundle **-autocopy** –datafs -target arel -phase lp2 limo\_mfp <limo\_mpf\_version> <limo\_cp\_version>

fhxbundle **-autocopy** –datafs -target narel -phase lp2 limo\_mfp <limo\_mfp\_version> <limo\_cp\_version>

fhxbundle **-autocopy** –datafs -target arel -phase lp2 limo <limo\_version> <limo\_cp\_version>

fhxbundle **-autocopy** –datafs -target narel -phase lp2 limo <limo\_version> <limo\_cp\_version>

## Notes

* You must have sudo on the host linux machine
* You must have write permission for the destination directory(s)
* You can add the -verbose (-v) switch to get better visibility on what the script is doing until you become comfortable with it
* By default, /tmp is used for the temporary work files. You can modify this using the -workdir switch.
* <version> can specified either as the full version, e.g., "002.1616L", or just the minor version, e.g., "1616L" [in which case the default of "002." is prepended automatically]